



## Universal Nuclide Chart UNC

File Navigation Charts Data Search Applications Information

Periodic Zoom Chart Data Search Decay Dosimetry Virtual **UNC** Forum News Help

File Options Help

Element name Select Nuclide Chart Size

Uranium U 238 Start Decay Chain Reaction Path Colour 9 x 9

U 238 (Z=92, N=146):  
Abundance: 99.2745 %  
half-life: 4.47E+9 y  
burnout time: 2.69E+1 y

CrossSections (barns):  
n,fission: 0.00001178  
n,g: 2.718  
total: 12.1  
elastic: 9.38

Daughters:  
Alpha (100.0% , Th 234 )  
SF (5.45E-5% )  
β-,β- (2.19E-10% , Pu 238 )

Most important gamma lines:  
Gamma1 E(keV) = 49.55 EP = 6.4E-4  
Gamma2 E(keV) = 110.0 EP = 2.9E-4

Legend:  
Alpha  
β-  
β+/ec  
IT  
n  
SF  
p  
Stable

Element Mass  
Pu 239

alpha  
beta -  
beta+  
IT  
n  
SF  
p  
ec  
Unknown  
Null  
stable

Show all nuclides with decay mode...

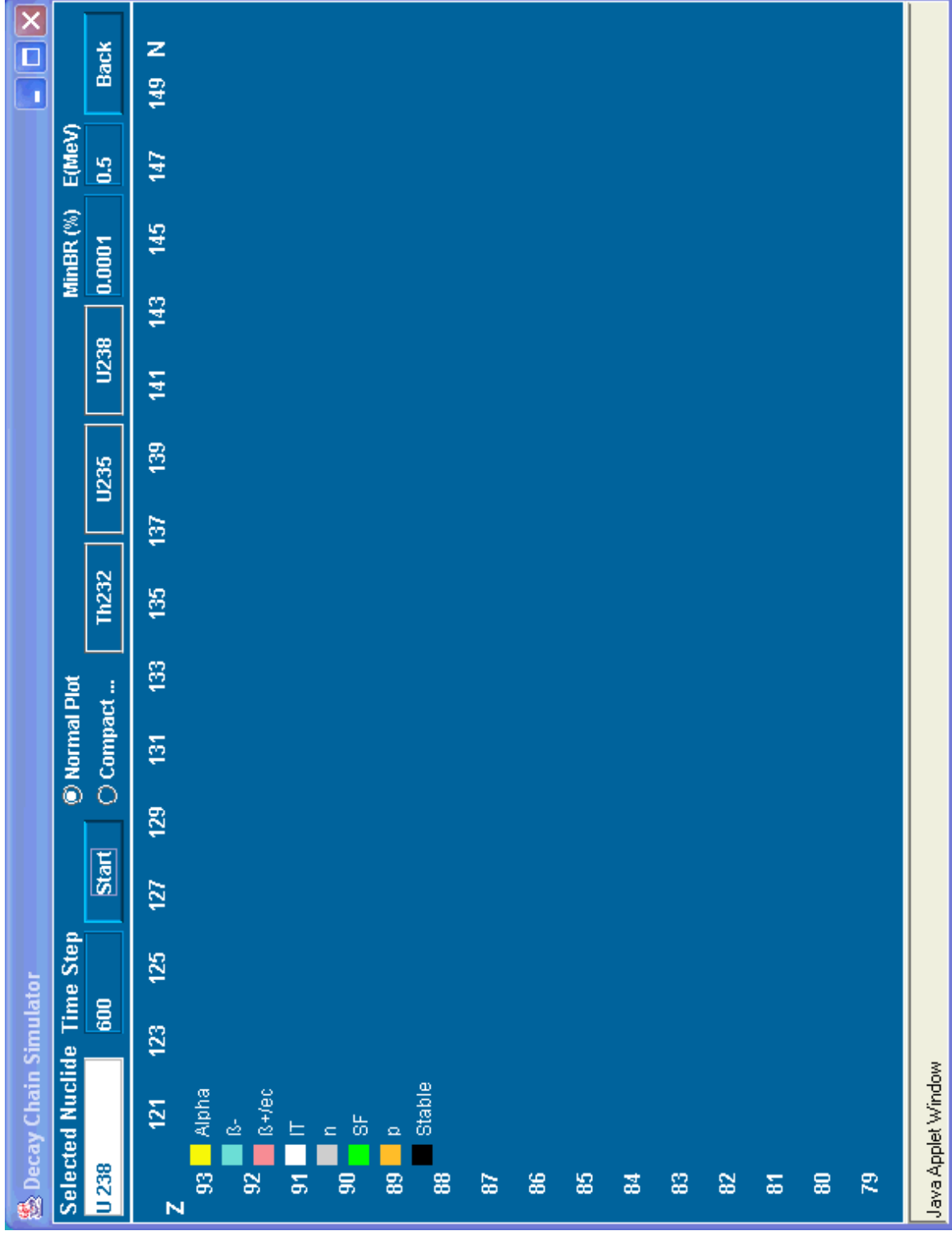
Select all  
Select none

Close UNC



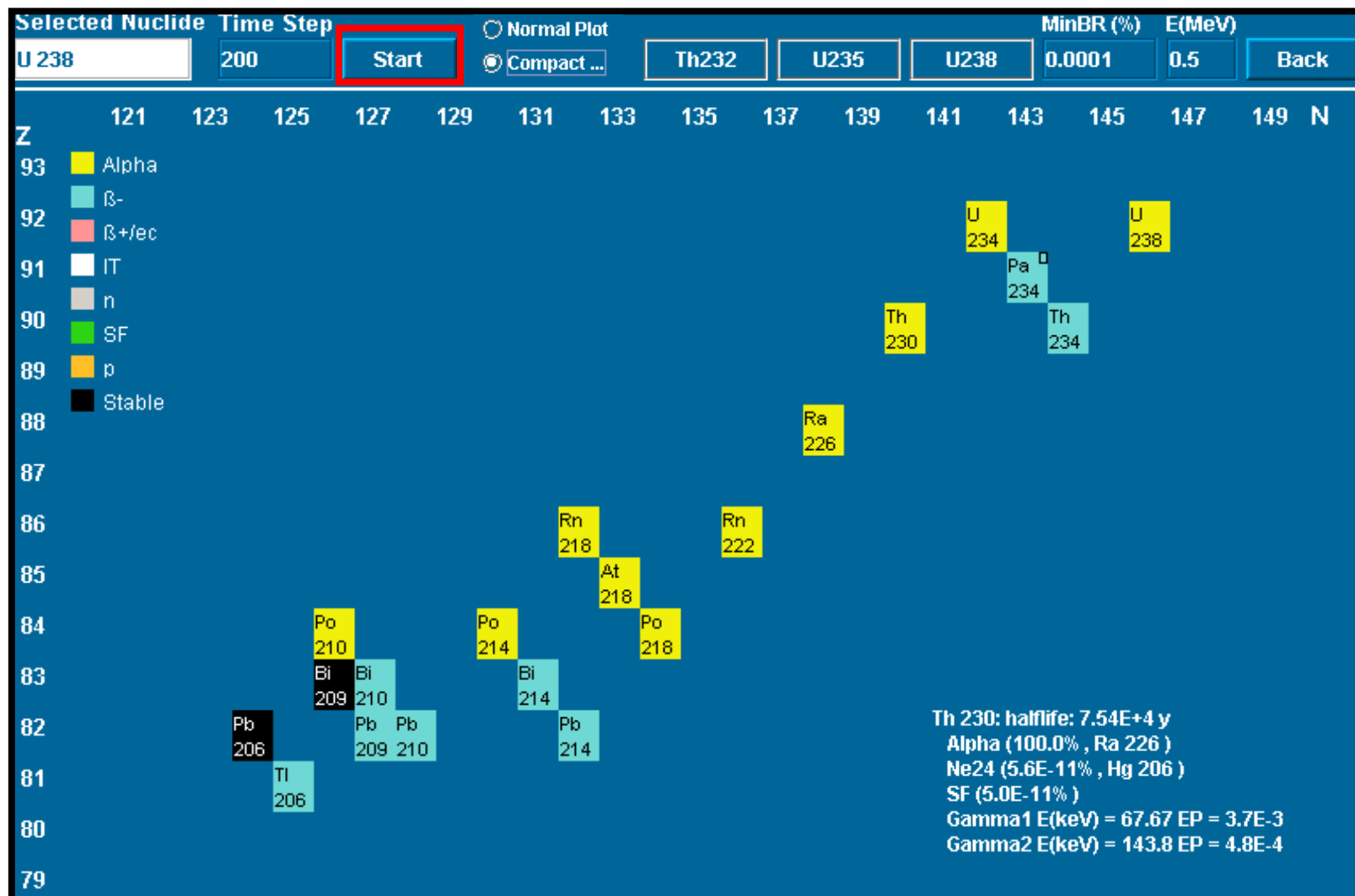
## Universal Nuclide Chart UNC

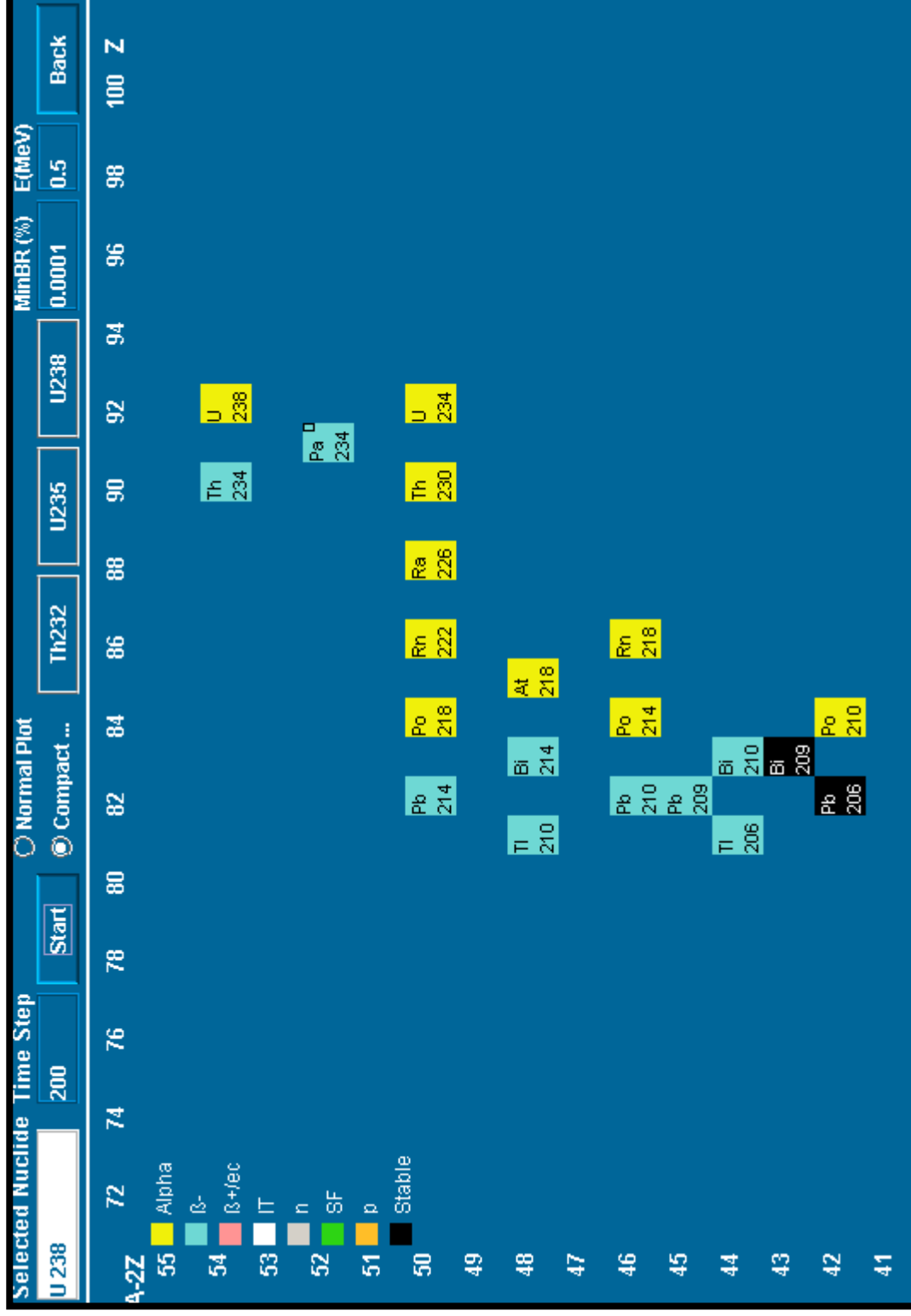






## Decay Chain Simulator







## Neutron Reaction Path Simulator

File Navigation Charts Data Search Applications Information

Periodic Zoom Chart Data Search Decay Dosimetry Virtual UNC Forum News Help

File Options Help

Element name Select Nuclide Start Decay Chain **Reaction Path** Colour Chart Size 9 x 9

Uranium U 238

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n  
SF  
p  
Stable

Element Mass  
Pu 239

alpha  
beta -  
beta+  
IT  
n  
SF  
p  
ec  
Unknown  
Null  
stable

Show all nuclides with decay mode...

Select all  
Select none  
Close UNC



## Neutron Reaction Path Simulator

**Reaction Path Simulator**

Selected Nuclide	Restart	Neutron Flux	Reaction Index	Time Step	Back
U 238	<input type="button" value="Restart"/>	3.0E14	20	600	<input type="button" value="Back"/>

Java Applet Window

